No.



9600143

THE UNITED STATES OF ANTERIOA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Incoh Hartz Seed Co., Inc.

There has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED. OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW INSUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR ROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT FETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS ED., 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'Hartz Variety H 6255'

In Vestimony Mixeret, I have hereunto set my hand and caused the seal of the Mant Variety Arction Office to be affixed at the City of Washington, D.C. this thirtieth day of July in the year of our Lord one thousand nine hundred and ninety-nine.

Dan Mulenen-

Mest

Aun maril

Commissioner Plant Variety Frotestion Office Syricaltural Marketing Society

U.S. DEPARTMENT OF ACRICULTUR AGRICULTURAL MARKETING SERVER	FORM APPROVED - OMB NO. 0581-00 The following statements are made in accordance with the Privacy Act			
AGRICULTURAL MARKETING SERVICE SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE		1974 (5 U.S.C. 552a).		
APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)		Application is required in order to determine if a plant variety protect certificate is to be issued (7 U.S.C. 2421). Information is held confider until certificate is issued (7 U.S.C. 2426).		
NAME OF APPLICANTISI las it is to appear on the Certificate!	statement on reverse)	2. TEMPORARY DESIGNATION OR	3. VARIETY NAME	
		EXPERIMENTAL NUMBER		
Jacob Hartz Seed Co., Inc.		H88-4644	Hartz Variety H 6255	
4. ADDRESS IStreet and No., or R.F.D. No., City, State, and ZIP Code, at	5. TELEPHONE Unchade area code! 870 JUS, 8/4//999	FOR OFFICIAL USE ONLY		
P.O. Box 946 901 N. Park Avenue		(501)673-8565	9600143	
Stuttgart, AR 72160		6. FAX (include area code)	DATE	
		(501)673-2838	FEB 20 1996	
7. GENUS AND SPECIES NAME	B. FAMILY NAME (BOD	nnical)	RUNG AND EXAMINATION FIEL	
Glycine max	Legumino	sea	; 2450 00	
8. CROP KIND NAME (Common name)			5 DATE	
Soybean	÷		: 2-20-16	
O. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORG	SANIZATION (corporation, partners	ship, association, etc.) (Common name)	CERTIFICATION FEE:	
Corporation			U 300 -	
1. IF INCORPORATED, GIVE STATE OF INCORPORATION Delaware		12. DATE OF INCORPORATION 1984	8/30/99	
3. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, T	TO SERVE IN THIS APPLICATION	AND RECEIVE ALL PAPERS	14. TELEPHONE (include area code)	
Dr. Edward A. Brown	•		(501)673-8565	
Jacob Hartz Seed Co., Inc.				
P.O. Box 946			16. FAX (Include area code)	
Stuttgart, AR 72160			(501)673-2838	
6. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (FO	offow instructions on reverse!			
a. 👸 Exhibit A. Origin and Breeding History of the Variety				
b. Exhibit 8. Statement of Distinctness				
c. 🗠 Exhibit C. Objective Description of the Variety	•		•	
d. Exhibit D. Additional Description of the Variety				
e. 疑 Exhibit E. Statement of the Basis of the Applicant's Ownership 1. 疑 Voucher Sample (2,600 viable untreated seeds or, for tuber prop	يين منشد ويوين			
g. Si Filing and Examination Fee (\$2,450), made payable to "Treasure			ed m a public repository)	
. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOL		A CLASS OF CERTIFIED SEED? USee Section	on 83(a) of the Plant Variety Protection Acti?	
. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIM GENERATIONS?	SITED AS TO NUMBER OF 18	3. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?		
TES NO		FOUNDATION REGISTERS	-	
HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEE	□ NO	,		
United States of America; on	February 27,	1995 to present d	ate of application	
The applicant(s) declare that a viable sample of basic seed of the variety vapplicable, or for a tuber propagated variety a tissue culture will be deposed.	will be furnished with application a sited in a public repository and ma	and will be replenished upon request in accordination of the certificate.	dence with such regulations as may be	
The undersigned applicant(s) is(ere) the owner(s) of this sexually reproduc Section 41, and is entitled to protection under the provisions of Section 42	ood or tuber propagated plant varie 2 of the Plant Variety Protection A	ety, and believe(s) that the variety is new, di act.	stinct, uniform, and stable as required in	
Applicant(s) istare) informed that false representation herein can jeopardize	e protection and result in penalties	s		
NATURE OF APPLICANT (Owner(s))	SIGNATU	RE OF APPLICANT (Owner(s))		
dunal a				
AE (Please print or type) NAME (A		ease print or type!		
ME [Please print or type]	NAME IPA			
WE Prease print or types Justin A. Roman	NAME IPA			
ME [Please print or type] ALIANA A. Brown PACITY OR TITLE DATE		Y OR TITLE	DATE	
duard A. Brown PACITY OR TITLE			DATE	

EXHIBIT A

ORIGIN AND BREEDING HISTORY

HARTZ VARIETY H6255

Summer 1985

Original cross made at Stuttgart, AR.

Cross number was 85177

Parentage: Young x Hartz 7126

Young = Essex x Davis

Hartz 7126 = Forrest x Ransom

Winter 1985-86

F1 grown in winter nursery in Belize, C. A.

Summer 1986

F2 grown in field in Stuttgart, AR.

Winter 1986-87

F3 and F4 advanced by modified single-seed descent in Belize, C. A.

Summer 1987

F5 grown as bulk population at Stuttgart, AR, single plants harvested.

Summer 1988

F6 plant rows grown at Stuttgart, AR. Row number 4644 harvested.

Summer 1989

Yield tested in preliminary trials at Stuttgart, AR.

Summer 1990-1995

Yield tested in Hartz Seed Co. tests in AR/MS/LA/GA/NC/SC.

Screened for reaction to selected root, stem and foliar diseases and to

soybean cyst and root-knot nematodes.

Summer 1993

Yield tested in state experiment station new strains test in AR/MS/LA.

Grew 0.1 acre breeder seed increase in 1993.

Summer 1994-95

Yield tested in state experiment station commercial variety tests in AR/MS/LA/NC/SC/GA. Grew 5.0 acre breeder seed increase in 1994.

Evidence of Stability:

Hartz Variety H6255 has been grown in breeder and production increases for three years and has remained uniform to type and stable

within commercially accepted limits.

Kinds of Frequency of Variants Observed:

Plants with white flowers and gray pubescence have been observed at a frequency 0.001% or about 4 seeds/lb. Plants with purple flowers and tawny pubescence have been observed at a frequency of about 0.00025% or 1 seed/lb. Plants with white flowers and tawny pubescence have been observed at a frequency of about 0.00025% or 1 seed/lb.

EXHIBIT B

Novelty Statement

To our knowledge 'Hartz Variety H6255' most closely resembles the variety 'Young', but 'Hartz Variety H6255' has purple flowers whereas 'Young' has white flowers.

PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

NAME OF APPLICANT(S)		TEMPORARY DESIGNATION	VARIETY NAME
acob Hartz Seed Co., Inc		H88-4644	Hartz Variety H6255
ADDRESS (Street and No., or R.F.D. No.	., City, State, and Zip Coo	iej	FOR OFFICIAL USE ONLY
P.O. Box 946			PVPO NUMBER
901 N. Park Avenue Stuttgart, AR 72160			9600143
Choose the appropriate response whi	ch characterizes the way	ion in alla faranza di anti-di	al un al 1: C: 10
in your answer is fewer than the num	ber of boxes provided	place a zero in the first hor wi	hen number is 0 or less (s = 10.1
Starred characters * are considered for	indamental to an adequ	sate soybean variety description	nen number is 9 or less (e.g., 0)
when information is available.		· · · · · · · · · · · · · · · · · · ·	a. Other characters should be descrit
1. SEED SHAPE:	Θ		
2	Θ	· ·	
2	IL u	1	
1 = Spherical (L/W, L/T, and T/M		 2 = Soberies Element	
3 = Elongate (L/T ratio > 1.2; T.	W= < 1,2)	4 = Elongate Flattened (L	Tratio > 1.2; T/W > 1.2)
<u></u>			
2 SEED COAT COLOR: (Mature Seed)			
1 = Yellow 2 = Green	8 - B		
2 - Green	3 = Brown	4 = Black 5 = Other (S	pecify)
3. SEED COAT LUSTER: (Mature Hand S	hallad Caroll		•
COLLEGE LOUIZITE (MARINE MARINE S	senso 2001		•
2 1 = Dull ('Corsoy 79'; 'Braxton')	2 = Shiny ('Nebsoy	1. 1G 179	
	z dimiy (ttcosoy	, GEOV 177	
4. SEED SIZE: (Mature Seed)			
- occooler (matter seed)			
1 5 Grams per 100 seeds			
5. HILUM COLOR: (Mature Seed)			
1 = Buff 2 = Yellow	3 = Brown 4 =	• Gray 5 = Imperfect Black	6 = Black 7 = Other (Specify
6. COTYLEDON-COLOR: (Mature Seed)			
I 1 = Yellow 2 = Green			•
T 1 - Tellow 2 - Green			•
7. SEED PROTEIN PEROXIDASE ACTIVIT			
SEED PROTEIN PEROXIDASE ACTIVIT	Υ:		
0 1 = Low 2 = High			
B. SEED PROTEIN ELECTROPHORETIC BA	ANO.		
	ANU:	e e t	
0 1 = Type A (SP1 ^a)	2 = Type B (SP1 ^b)		
نـــــــــــــــــــــــــــــــــــــ		**	
P. HYPOCOTYL COLOR:			
		•	•
4 1 = Green only ("Evans"; "Davis")	2 = Green with br	onze band below cotyledons (Woo	dworth'; 'Tracy')
3 = Light Purple below cotyledons (* 4 = Dark Purple extending to unifoli	ate leaves ('Hodgson'; 'Col	ker Hampton 266A')	
4 = Dark Purple extending to unifoli	ate leaves ('Hodgson': 'Col	ker Hampton 266A')	<u> </u>
3 = Light Purple below cotyledons (*4 = Dark Purple extending to unifoli	ate leaves ('Hodgson'; 'Col	ker Hampton 266A')	<u> </u>

11. LEAFLET SIZE:	7000110
2 1 = Small ('Amsoy 71'; 'A5312') 2 = Medium ('Corsoy 79'; 3 = Large ('Crawford'; 'Tracy')	'Gasoy 17')
12. LEAF COLOR:	
1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Corso') 3 = Dark Green ('Gnome'; 'Tracy')	y 79'; 'Braxton')
★ 13. FLOWER COLOR:	
2 1 = White 2 = Purple 3 = White with purple throat	, · ·
★ 14. POD COLOR:	
1 = Tan 2 = Brown 3 = Black	
★ 15. PLANT PUBESCENCE COLOR:	
1 = Gray 2 = Brown (Tawny)	
16. PLANT TYPES:	
1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amcor'; 'B	raxton')
★ 17. PLANT HABIT:	
1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will') 3 = Indeterminate ('Nebsoy'; 'Improved Pelican')	
★ 18. MATURITY GROUP:	
0 9 1-000 2-00 3-0 4-1 5-11 6- 9-VI 10-VII 11-VIII 12-IX 13-X	iii 7 - IV 8 - V
★ 19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)	
BACTERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli var. sojensis)	
* Bacterial Blight (Pseudomonas glycinea)	
★ 2 Wildfire (Pseudomonas tabaci)	
FUNGAL DISEASES:	
Brown Spot (Septoria glycines)	
Frogeye Leaf Spot (Cercospora sojina)	
Race 1 Race 2 Race 3 Race 4 Race 4 Race 4	Other (Specify) Race Undetermined
Downy Mildew (Peronospora trifotiorum var. manshurica) Powdery Mildew (Microsphaera diffusa)	
Brown Stem Rot (Cephalosporium gregatum)	
2 Stem Canker (Diaporthe phaseolorum var. caulivora)	

19. DISEASE RE	ACTION: (Enter 0 = Not Tested; 1 = Suscepti	Man a ma		
	DISEASES: (Continued)	pie; Z.='Resistant) (Continue	d)	9600143
4 2	and Stem Blight (Diaporthe phaseolorum var; s			7000143
171	e Seed Stain (Cercospora kikuchii)	ojae)		•
	octonia Root Rot (Rhizoctonia solani)			
*	phthora Rot (Phytophthora megasperma var. s	ojae)		
nace i	Race 3	Race 4	Race 5	Race 7
0 Race 8	Other (Spec	ify)		
VIRAL DISE	ASES:			
2 Bud Bi	ight (Tobacco Ringspot Virus)			
0 Yellow	Mosaic (Bean Yellow Mosaic Virus)			
★ 0 Cowpea	Mosaic (Cowpea Chlorotic Virus)			
1 1	ttle (Bean Pod Mottle Virus)		•	
, []	ettle (Soybean Mosaic Virus)	•		
NEMATODE D				
★ 1 Race 1	Cyst Nematode (Heterodera glycines)		0.14	
	Race 2 A Race 3	Race 4 Oti	per (Specify)9,14	A ug
	matode (Hoplolaimus Colombus)			
. (-)	Root Knot Nematode (Meloidogyne incognita;	•		•
_	Root Knot Nematode (Meloidogyne Hapla)			
Peanut Ro	ot Knot Nematode (Meloidogyne arenaria)			
0 Reniform	Nematode (Rotylenchulus reniformis)			
OTHER D	ISEASE NOT ON FORM (Specify):			
	· · · · · · · · · · · · · · · · · · ·	•		
	RESPONSES: (Enter 0 = Not Tested; 1 = Susc	eptible; 2 = Resistant)		
☐ Iron Chloro	sis on Calcareous Soil			
Other (Spec	ify)			
21. INSECT REACTION	: (Enter 0 = Not Tested; 1 = Susceptible; 2 = 1	Resistant)		
	n Beetle (Epilachna varivestis)	,		
2 Potato Leaf	Hopper (Empoasca fabae)	• .		
	fy)		• .	
		77		<u> </u>
CHARACTER	ARIETY MOST CLOSELY RESEMBLES THE	T SUBMITTED.		
Plant Shape	Young	CHARACTER	NAME OF	VARIETY
Leaf Shape	Davis	Seed Coat Luster	Young	
Leaf Color	Young	Seed Size	Tourig	·
Leaf Size	Young	Seed Shape		
		Seedling Pigmentation		
FORM LMGS-470-57 (6-63)				(Z

* * *		NO. OF	PLANT LODGING	CM PLANT	LEAFLET SIZE SEED CONT			9600	9600143	
	VARIETY						SEED CONTENT		SEED SIZE	. NO
Hartz	Var. H6255		1 1 1 1	HEIGHT	CM Width	CM Length	X Protein	× Oii	SEEDS	SEE
	Submitted	151	1	7 9	k		34.4	20.1	15	2-3
Youn	Name of Similar Variety	155	1.5	96			35.8	19.2		

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer, Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A₂ in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

REPRODUCE LOCALLY. Include form number and date on all reproductions.	FORM APPROVED - OMB N	0. 0581-0055 EXPIRES: 12-31-9		
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION ŌFFICE	The following statements are made	e in accordance with the Privacy Act o erwork Reduction Act (PRA) of 1995 .		
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to certificate is to be issued (7 U.S.C. until certificate is issued (7 U.S.C.	der to determine if a plant variety protection U.S.C. 2421). Information is held confidential J.S.C. 2426).		
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME		
Jacob Hartz Seed Co. Inc.	н88-4644	Hartz Variety H 6255		
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)	5. TELEPHONE (include area code)	6. FAX (include area code)		
P. O. BOX 946	870-673-8565	870-673-2838		
901 N Park Avenue	7. PVPO NUMBER			
Stuttgart AR 72160				
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate	block. If no, please explain.	YES NO		
 Is the applicant (individual or company) a U.S. national or U.S. based compan if no, give name of country 	ıy?	X YES NO		
10. Is the applicant the original breeder? If no, please answer the following:		Y YES NO		
a. If original rights to variety were owned by individual(s): Is (are) the original breeder(s) a U.S. national(s)? If no, give name of	country			
b. If original rights to variety were owned by a company: Is the original breeder(s) U.S. based company? If no, give name of co	Person and organization of the second or the second of the	X YES NO		
$H^{0}(\mathbb{R}^{n})$, $H^{0}(\mathbb{R}^{n})$, $H^{0}(\mathbb{R}^{n})$, $H^{0}(\mathbb{R}^{n})$, $H^{0}(\mathbb{R}^{n})$, $H^{0}(\mathbb{R}^{n})$, $H^{0}(\mathbb{R}^{n})$				
11. Additional explantion on ownership (If needed, use reverse for extra space):				
PLEASE NOTE:		·		
lant variety protection can be afforded only to owners (not licensees) who meet o	one of the following criteria:			
. If the rights to the variety are owned by the original breeder, that person must of a country which affords similar protection to nationals of the U.S. for the sa	t be a U.S. national, national of a U ime genus and species.	JPOV member country, or national		
. If the rights to the variety are owned by the company which employed the orig nationals of a UPOV member country, or owned by nationals of a country which genus and species.	jinal breeder(s), the company must h affords similar protection to nation	t be U.S. based, owned by conals of the U.S. for the same		
. If the applicant is an owner who is not the original breeder, both the original br	eeder and the applicant must mee	t one of the above criteria.		
he original breeder may be the individual or company who directed final breed efinition.	ding. See Section 41(a)(2) of th			

definition.

Public reporting burden for this collection of information is estimated to average 10 minutes per response, including the time for polywing instructions, searching existing data sources, gethering and

Public reporting burden for this collection of information is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Jamie L Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your letter.

Under the PRA of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call (202) 720-7327 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.

EXHIBIT E

BASIS OF APPLICANTS OWNERSHIP

Jacob Hartz Seed Company, Incorporated, Stuttgart, Arkansas, established a Plant Breeding Program in 1972 for the purpose of developing, releasing, and maintaining stocks of soybean varieties developed by its Plant Breeding Program.

Dr. Edward Brown, Plant Breeder, has been licensed to breed soybeans by the Arkansas State Plant Board. Dr. Brown and co-workers at Jacob Hartz Seed Co., Inc. developed and tested this variety at Stuttgart, AR, and other locations.

On April 23, 1983, Jacob Hartz Seed Co., Inc., was purchased by HybriTech Seed International, Inc., a wholly owned subsidiary of Monsanto, St. Louis, Missouri. Jacob Hartz Seed Co., Inc., was originally incorporated in 1948 in the State of Arkansas. In 1984, Jacob Hartz Seed Co., Inc., merged with the Monsanto-West Africa Inc., a Delaware corporation. Jacob Hartz Seed Co., Inc. is the present name of the merged corporation which is a Delaware corporation.